ABSTRACT OF THE DISCLOSURE

A method and apparatus for producing nanometer-sized particles, the method including the steps of forming of mixture by mixing a first precursor reactant, a second precursor reactant, a surface-stabilizing surfactant, and a high boiling point liquid to form a mixture, forming a mist of droplets of the mixture, heating the droplets to cause a reaction between species of the first and second precursor reactants within the heated droplets, and collecting the nanometer-sized products.

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